

INSTALLATION & TRAINING REPORT

Customer Name : Dagan Diagnostic	Centre.
Department : Laboratory	
Address : Opp. Civil Hospila	d, Palwal.
City: Palwal Pir	1: 121102 State: Haryana.
Territory : 2 - 10	Zone: NZI
Telephone & Fax : 01275 - 250877	email: jogenden . dagan @ gmail. com
Contact Person : Mn. Joginden Dag	MobileNo.: 7015830951
	Sr. No.: 601070
Installation Date : 03 - 01 - 2022	
	installed by Service Engineer / Product Specialist of Transasia of the instrument was provided to the following staff members on
Name (s)	Designation/ Dept.
1. Mn. Joginden	Owner.
	Lab Tech.
3	
Test/ Parameters Demonstrated: LFT, I	KFT
Customer Comments (If any): Instruction	nent is working fine.
	Seauller.
Engineer / Product Specialist: Signature: And Dunder / ML	Customer Signature:
Signature : Type / Do	Customer Name: Mt. Joginden Daga
Name: Mn. Amol/ Mn. Devenden/Mn. K	Designation: Owner.
Date: 03-01-2022	Customer Seal : (Prop.)m
payment of this instrument / reagents / service shall be referred to the	ectly arising at any time under, out of, in connection with or in relation to the sole arbitrator to be appointed by Transasia Bio-Medicals Limited under the shall be at Mumbai. The award rendered by the arbitrator(s) shall be final and
WWW transasia co in	O 13485 & ISO 9001 Certified Co.

TRANSASIA BIO-MEDICALS LTD.

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TRANSASIA HOUSE, 8 CHANDIVALI STUDIO ROAD, ANDHERI (E), MUMBAI - 400 072. TEL: 4030 9000 FAX: (022) 4030 9090 / 2857 3030 Email: transasia@transasia.co.in

DELHI (011) 25732223 CHENNAI (044) 28227149 KOLKATA (033) 22157839 BANGALORE (080) 25568044 AHMEDABAD (079) 26407030

Report Type : Controls

03-Jan-2022

Sr#	-	N	ω	4	Ó	6	7	8	9	10	4	12	13
Lot#	26491	26491	26491	26491	26491	26491	26491	26491	26491	26491	26491	26491	26491
Consumable	BIO RAD 1												
Test	GPTHL	ALPU	GGT	BIDD	ВІТ	UREA	TRIG	CHOL	UA	ALBD	CRENZ	HDLC	CA
Result Unit	23.4 U/L	113 U/L	64.1 U/L	0.38 mg/dl	0.91 mg/dl	35.2 mg/dl	178.2 mg/dl	241 mg/dl	5.1 mg/dl	3.74 g/dl	1.67 mg/dl	69.4 mg/dl	9.8 mg/dl
Flag	-1SD												
Curve #	61	62	63	64	65	66	67	68	69	70	777	84	91
Result Date	3-Jan-2022 14:52:13	3-Jan-2022 14:52:23	3-Jan-2022 14:52:33	3-Jan-2022 14:52:43	3-Jan-2022 14:52:53	3-Jan-2022 14:53:02	3-Jan-2022 14:53:12	3-Jan-2022 14:53:22	3-Jan-2022 14:53:32	3-Jan-2022 14:53:41	3-Jan-2022 15:04:28	3-Jan-2022 16:03:44	3-Jan-2022 16:04:53
Mean	27.400	115.000	66,300	0.370	0.990	33.800	182,000	251.000	5.380	3.960	1.660	67.200	9.210
SD	2.700	12.000	6.600	0.040	0.120	2.550	13.500	19.500	0.400	0.300	0.160	6.750	0.690
Interval (3SD)	19.3 - 35.5	79 - 151	46.5 - 86.1	0.25 - 0.49	0.63 - 1.35	26.15 - 41.45	141.5 - 222.5	192.5 - 309.5	4.18 - 6.58	3.06 - 4.86	1.18 - 2.14	46.95 - 87.45	7.14 - 11.28

TRANSASIA BIOMEDICALS LIMITED INSTALLATION QUALIFICATION FOR DAGAR DIAGNOSTIC CENTER PALWAL 121102

TRANSASIA® Bio-Medicals Ltd.

Instrument Name EM360

Clinical Chemistry Analyzer

Instrument ID

601070

5.0 INSTRUMENT DESCRIPTION

The Clinical Chemistry Analyzer is an open, full automated, discrete, patient prioritized, random access, computerized analyzer.

Technical Specifications:

System Type	Open, Automated, Discrete, Random Access, Patient Prioritized Clinical Chemistry Analyzer		
Analysis Speed	360 Biochemistry tests per hour 600(with ISE)		
Display resolution	800 x 600		
Analyzer Dimensions	840 (W) x 610 (D) x 1100 (H) mm		
Number of tests on board	Maximum: 50		
Assay Modes	1-point, 2-point,Rate-A and Rate -B		
Calibration	Linear (two point and multi point), Factorized and Non-linear multipoint		
Sample (Tubes / Cups)	Primary tubes of 5, 7 or 10mL & sample cups		
Photometric Optics	Mono and Bi-chromatic measurement using holographic diffraction grating and 12 wavelengths		
Absorbance Range	0-2.5		
Auxiliary Data	10,000 results		
Interface	RS-232 C port for Bi-directional Communication		
Stat Sampling	Total 25 position(E1-E20 standard positions on standard tray & E46-E50 on sample disk outer ring.		

INSTALLATION QUALIFICATION FOR DAGAR DIAGNOSTIC CENTER PALWAL 121102

Clinical Chemistry Analyzer Instrument ID 601070



Purpose:

EM360

Instrument Name

The purpose of this instrument is to analyze the bio-chemical parameters, such as Sugar, Cholestrol, Tri-glycerides, Proteins, etc.

The working unit of the analyzer comprises the following:

- Basic operating unit with an intelligent photometer
- Sophisticated robotics combined with an operating console and a central processing unit (CPU).

Operating Unit:

The operating unit of the analyzer includes the sample and reagent handling systems. The sample handling system consists of a sample tray, sample arm, sample syringe and a wash station for the sample probe.

Photometric System:

The photometric system consists of 60 hard glass cuvettes, a high-resolution diffraction grating (with 12 user selectable wavelengths) and a halogen lamp.

Operating Console:

The operating console consists of a touch screen (optional) color monitor, a key board and a mouse.

CPU (Central Processing Unit):

CPU consists of Pentium – IV 1.7 GHz processor (or Higher) with a 48 x CD Drive, and minimum 256 MB memory. The application software can be installed on computers with operating systems of Windows XP.

Besides the above mentioned, this analyzer has got the unique Software and Hardware features.

INSTALLATION QUALIFICATION FOR DAGAR DIAGNOSTIC CENTER PALWAL 121102

TRANSASIA® Bio-Medicals Ltd.

Instrument Name EM360

Clinical Chemistry Analyzer

Instrument ID

601070

6.0 IDENTIFICATION OF MAJOR COMPONENTS / ACCESSORIES

Details of each major component identified in this section, is recorded in a data sheet under the section 08.0.

Name of Component / A	Present	Verified by	Observations	
Name of Component / Accessories	Yes / No	Signature		
Sample Tray / Disk	Yes			
Sample Syringe	Yes			
Sample Probe	Yes			
Wash Station for Sample Probe	Yes			
Reagent Tray / Disk	Yes			
Reagent Bottles	Yes		4/8	
Reagent Probe	Yes	Devender		
Reagent Syringe	Yes	Singh		
Stirrer	Yes			
Permanent Reaction Cuvette	Yes		14	
7 Stage Laundry System	Yes			
Light Source	Yes			
Sample Cups	Yes			
Software of EM 360	Yes			

INSTALLATION QUALIFICATION FOR DAGAR DIAGNOSTIC CENTER PALWAL 121102

Instrument Name EM360 Clinical Ch

Clinical Chemistry Analyzer

Instrument ID

601070



7.0 INSTALLATION CHECK / REVIEW

S. No.	Statement	Yes / No	Verified by Signature	
1.	Verify that the "as built' drawings are complete and represent the design concept		Signature	
2.	Verify that major components / accessories are securely anchored and shock proof.			
3.	Verify that there is no observable physical damage.			
4.	Verify that there is sufficient room of servicing provided			
5.	Verify that all utilities and electrical connections have been done according to the drawings.	Yes	Devender Singh	
6.	Walking access to ground mounted instrument provided.			
7.	Required electric connections are tight, weather proof and earthed.			
8.	Instrument identification nameplate visible.			
9.	Units installed on foundation and secure in place as per manufacturer's recommendations.			
10.	Verify that the instruments installed and leveled properly on the floor.			
11.	Verify that the Material of Construction is proper and meeting the requirements.			

OPERATIONAL QUALIFICATION CHECKLIST FOR DAGAR DIAGNOSTIC CENTER PALWAL 121102

TRANSASIA®
Bio-Medicals Ltd.

Instrument Name EM360

Clinical Chemistry Analyzer

Instrument ID

601070

As part of Operational qualification, the following checks shall be done and each test shall be recorded:

Instrument Start-up

To check and establish the standard sequence to be followed, during start-up of the subjected instrument in Auto / Manual mode, to propose for correct operation and to avoid any damage to the instrument and personnel.

Functional Checks

To check and ensure that different functions (such as switching devices, indication / monitoring / recording devices, feedback system, etc.) for correct operation of the subjected instrument are working as expected.

Interlocks and Alarms Check

To check and ensure that the interlocks and alarms (such as status indication system, negative feed back system, control loops, sound alarms, etc.) for correct control and monitoring of the operation cycle are working as expected.

Safety / Security Checks

To check and ensure that the safety / security functions (such as program logging, process control, personnel safety systems, password check, etc.) to protect the instrument and personnel are working as expected.

Instrument Shut-down

To check and establish the standard sequence to be followed, during shut-down of the subjected instrument in Auto / Manual mode, to propose for correct operation and to avoid any damage to the instrument and personnel.

OPERATIONAL QUALIFICATION CHECKLIST FOR DAGAR DIAGNOSTIC **CENTER PALWAL 121102**



Instrument Name EM360

Clinical Chemistry Analyzer | Instrument ID

601070

1.0 INSTRUMENT START-UP:

Refer the Operator's Manual for the procedures, for the following activities:

Action	Observation	Verified by Sign	Remarks
Ensure that all the required electrical connections are properly connected.	ОК	Devender Singh	N/A
Ensure the proper filling of double distilled / de-ionized water and Cleaning solution in the respective cans.	ОК	Devender Singh	N/A
Ensure the availability of XL Wash.	ОК	Devender Singh	N/A
Ensure the availability of Biohazard Waste.	ОК	Devender Singh	N/A
Ensure the availability of Normal Waste.	ОК	Devender Singh	N/A
Switch ON the rear switch of the analyzer.	ок	Devender Singh	N/A
Switch ON the side switch of the analyzer.	ОК	Devender Singh	N/A
Switch ON the computer and start the analyzer application software.	ОК	Devender Singh	N/A
Initialization	OK	Devender Singh	N/A

OPERATIONAL QUALIFICATION CHECKLIST FOR DAGAR DIAGNOSTIC CENTER PALWAL 121102



Instrument Name EM360

Clinical Chemistry Analyzer

Instrument ID

601070

070

2.0 FUNCTIONAL CHECKS:

2.1 Maintenance:

Refer the Operator's Manual for the procedures, for the following activities:

Activity	Observation	Verified by Sign	Remarks
Photometer functioning	OK	Devender Singh	N/A
Cuvette Rinse	OK	Devender Singh	N/A

OPERATIONAL QUALIFICATION CHECKLIST FOR DAGAR DIAGNOSTIC CENTER PALWAL 121102



Instrument Name EM360

Clinical Chemistry Analyzer

Instrument ID

601070

2.2 Loading of Reagents:

Refer the Operator's Manual for the procedures, for the following activities:

Action	Observation	Verified by Sign	Remarks
Reagent Level Scan, Dead Volume Check & 2 Reagent Chemistry	OK	Devender Singh	N/A

PERFORMANCE QUALIFICATION FOR DAGAR DIAGNOSTIC CENTER PALWAL 121102

TRANSASIA Bio-Medicals Ltd.

Instrument Name EM360

Clinical Chemistry Analyzer

Instrument ID

601070

2.0 OBJECTIVE

The objective of this protocol is to establish documented evidence for the Performance Qualification of EM360 (Bio-Chemistry Random Analyzer) at <u>Dagar Diagnostic Center</u>, <u>Palwal 121102</u> and Transasia Biomedicals Ltd. to ensure that the results obtained are within the pre-determined Acceptance Criteria.

3.0 SCOPE

The Scope of this protocol is applicable to EM360 (Bio-Chemistry Random Analyzer).

4.0 PRE-REQUISITES:

Following Pre-requisites are required before the execution of Performance Qualification.

- > Completion of Installation Qualification prior to PQ.
- > Completion of Operational Qualification prior to PQ.

5.0 EXECUTION TEAM

Name	Department	Designation	Signature
Ravi Kumar Sah	TSD	Application Specialist	or
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PERFORMANCE QUALIFICATION FOR DAGAR DIAGNOSTIC CENTER PALWAL 121102

TRANSASIA®
Bio-Medicals Ltd.

Instrument Name EM360

Clinical Chemistry Analyzer

Instrument ID

601070

6.0 TEST PLAN

5-6 tests of different mode shall be followed, during the Performance Qualification of EM360 (Bio-Chemistry Random Analyzer).

PERFORMANCE QUALIFICATION FOR DAGAR DIAGNOSTIC CENTER PALWAL 121102

Instrument Name EM360

Clinical Chemistry Analyzer

Instrument ID 601070



7.0 EXECUTION OF TEST PLAN

Precision Study- Run test in 10 replicates & calculate Mean, SD & CV% Accuracy Study- Run QC

Reviewed by:

Name	Signature	Date
Ravi Kumar Sah	M	03-01-2022

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PERFORMANCE QUALIFICATION FOR DAGAR DIAGNOSTIC CENTER PALWAL 121102

Instrument Name Clinical Chemistry Analyzer Instrument ID 601070



8.0 DEFICIENCIES / DEVIATIONS:

No Deviation

Reviewed by:

Name	Signature	Date
Ravi Kumar Sah	·N	03-01-2022

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